

Sheet 1 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15670-021001	Application No. 09/595,195
		Applicant Nigam, et al.	
		Filing Date June 16, 2000	Group Art Unit Unknown

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
aj	AQ	Qiao, et al., "Branching morphogenesis independent of mesenchymal-epithelial contact in the developing kidney", <u>Proc. Natl. Acad. Sci.</u> , Vol. 96, pp. 7330-7335, June, 1999
aj	AR	Santos, et al., "Modulation of HGF-Induced Tubulogenesis and Branching by Multiple Phosphorylation Mechanisms", <u>Developmental Biology</u> , Vol. 159, pp. 535-548, 1993
aj	AS	Santos, et al., "HGF-Induced Tubulogenesis and Branching of Epithelial Cells is Modulated by Extracellular Matrix and TGF- β ", <u>Developmental Biology</u> , Vol. 160, pp. 293-302, 1993
aj	AT	Santos, et al., "Involvement of Hepatocyte Growth Factor in Kidney Development", <u>Developmental Biology</u> , Vol. 163, pp. 525-529, 1994

Examiner Signature 	Date Considered 11/19/04
EXAMINER: Initials/citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

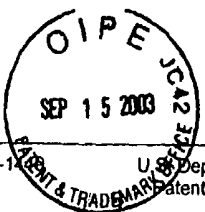
Sheet 2 of 3

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aj	AU	Barros, et al., "Differential tubulogenic and branching morphogenetic activities of growth factors: Implications for epithelial tissue development", <u>Proc. Natl. Acad. Sci.</u> Vol. 92, pp 4412-4416, May, 1995
	AV	Pavlova, et al., "Evolution of gene expression patterns in a model of branching orphogenesis", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 277, pp. F650-F663, 1999
	AW	Grobstein, et al., "Inductive Epithelio-mesenchymal Interaction in Cultured Organ Rudiments of the Mouse", <u>Science</u> , Vol. 118, No. 3053, pp. 52-55, July 3, 1953
	AX	Grobstein, "Morphogenetic Interaction between Embryonic Mouse Tissues separated by a Membrane Filter", <u>Nature</u> , Vol. 172, pp. 869-871, July 4, 1953-December 26, 1953
	AY	Grobstein, et al., "Inductive Interaction in the Development of the Mouse Metanephros", <u>The Journal of Experimental Zoology</u> , Vol. 130, pp: 319-339, October, November, December, 1955
	AZ	Saxen, <u>Organogenesis of the Kidney</u> , (table of contents) Cambridge University Press, Cambridge, 1987
	AAA	Davies, et al., "Inductive Interactions between the Mesenchyme and the Ureteric Bud", <u>Experimental Nephrology</u> , Vol. 4, pp. 77-85, March-April, 1996
	ABB	Vainio, et al., "Inductive Tissue Interactions, Cell Signaling and the Control of Kidney Organogenesis", <u>Cell</u> , Vol. 90, pp. 975-978, September 19, 1997
	ACC	Schofield, et al., "Growth Factors and Metanephrogenesis", <u>Experimental Nephrology</u> , Vol. 4, pp. 97-104, March-April, 1996
	ADD	Nigam, "Determinants of branching tubulogenesis", <u>Current Opinion in Nephrology and Hypertension</u> , Vol. 4, No. 3, pp. 209-214, 1995
	AEE	Sakurai, et al., "In vitro branching tubulogenesis: Implications for developmental and cystic disorders, nephron number, renal repair, and nephron engineering", <u>Kidney International</u> , Vol. 54, pp. 14-26, 1998
	AFF	Schuchardt, et al., "Defects in the kidney and enteric nervous sytem of mice lacking the tyrosine kinase receptor Ret", <u>Nature</u> , Vo. 367, pp. 380-383, January 27, 1994
	AGG	Durbec, et al., "GDNF signalling through the Ret receptor tyrosine kinase", <u>Nature</u> , Vol. 381, No. 6585, pp. 789-793, June 27, 1996
	AHH	Sanchez, et al., "Renal agenesis and the absence of enteric neurons in mice lacking GDNF", <u>Nature</u> , Vol. 382, No. 6586, pp. 70-73, July 4, 1996
	AII	Pichel, et al., "Defects in enteric innervation and kidney development in mice lacking GDNF", <u>Nature</u> , Vol. 382, No. 6586, pp. 73-76, July 4, 1996
	AJJ	Moore, et al., "Renal and neuronal abnormalities in mice lacking GDNF", <u>Nature</u> , Vol. 382, No. 6586, pp. 76-79, July 4, 1996
	AKK	Pepicelli, et al., "Rapid Communication GDNF Induces Branching and Increased Cell Proliferation in the Ureter of the Mouse", <u>Developmental Biology</u> , Vol. 192, pp. 193-198, 1997
	ALL	Sakurai, et al., "An in vitro tubulogenesis system using cell lines derived from the embryonic kidney shows dependence on multiple soluble growth factors", <u>Proc. Natl. Acad. Sci.</u> , Vol. 94, pp. 6279-6284, June, 1997
✓	AMM	Cantley, et al., "Regulation of mitogenesis, motogenesis, and tubulogenesis hepatocyte growth factor in renal collecting duct cells", <u>American Journal of Physiology</u> , Vol. 267, No. 2, pp. F271-F280, August, 1994

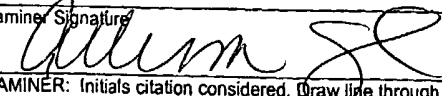
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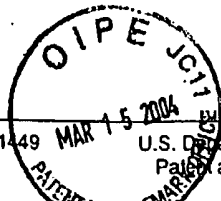
Substitute Disclosure Form (PTO-1449)

Sheet 3 of 3

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		15670-021001	09/595,195
		Applicant	
		Nigam, et al.	
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Examiner Initial	Desig. ID	Document
ap	ANN	Barros, et al., "Differential tubulogenic and branching morphogenetic activities of growth factors: Implications for epithelial tissue development", <u>Proc. Natl. Acad. Sci.</u> , Vol. 92, pp. 4412-4416, May, 1995
	AOO	Sakurai, et al., "EGF receptor ligands are a large fraction of in vitro branching morphogens secreted by embryonic kidney", <u>Am. J. Physiol.</u> Vol. 273, No. 3, pp. F463-F472, September, 1997
	APP	Gumbiner, "Epithelial Morphogenesis", <u>Cell</u> , Vol. 69, pp. 385-387, May 1, 1992
	AQQ	Rodriguez-Boulan, et al., "Morphogenesis of the Polarized Epithelial Cell Phenotype", <u>Science</u> , Vol. 245, pp. 718-725, August 18, 1989
	ARR	Sukhatme, "Renal Development: Challenge and Opportunity", <u>Seminars in Nephrology</u> , Vol. 12, No. 4, pp. 422-426, September, 1993
	ASS	Vega, et al., "Glial cell line-derived neurotrophic factor activates the receptor tyrosine kinase RET and promotes kidney morphogenesis", <u>Proc. Natl. Acad. Sci.</u> , Vol. 93, pp. 10657-10661, October, 1996
	ATT	Sainio, et al., "Glial-cell-line-derived neurotrophic factor is required for bud initiation from ureteric epithelium", <u>Development</u> , Vol. 124, pp. 4077-4087, October, 1997

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U.S. Patent Documents							
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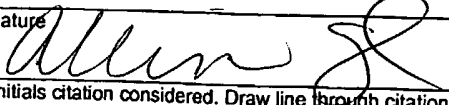
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<i>ag</i>	AQ	Kuznetsov, et al., "Perturbations in maturation of secretory proteins and their association with endoplasmic reticulum chaperones in a cell culture model for epithelial ischemia", <u>Proc. Natl. Acad. Sci.</u> , Vol. 93, pp. 8584-8589, August, 1996
<i>ag</i>	AR	Molitoris, et al., "Role of the actin cytoskeleton in ischemia-induced cell injury and repair", <u>Pediatric Nephrol.</u> , Vol. 11, pp. 761-767, 1997
<i>ag</i>	AS	Bush, et al., "Selective degradation of E-cadherin and dissolution of E-cadherin-catenin complexes in epithelial ischemia", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 278, pp. F847-852, 2000
<i>ag</i>	AT	Bush, et al., "Pretreatment with inducers of ER molecular chaperones protects epithelial cells subjected to ATP depletion", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 277, pp. F211-218, 1999

Examiner Signature <i>William J. [Signature]</i>	Date Considered 11/19/07
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Other Documents (include Author, Title, Date, and Place of Publication)

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aj	AU	Hammerman, et al., "Acute renal failure. III. The role of growth factors in the process of renal regeneration and repair", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 279, pp. F3-F11, 2000
	AV	Steinberg, et al., "Cadherins and their connections: adhesion junctions have broader functions", <u>Curr. Opin. Cell Biol.</u> , Vol. 11, No. 5, pp. 554-560, October, 1999
	AW	Le, et al., "Recycling of E-Cadherin: A Potential Mechanism for Regulating Cadherin Dynamics", <u>The Journal of Cell Biology</u> , Vol. 146, No. 1, pp. 219-232, July 12, 1999
	AX	Denker, et al., "Molecular structure and assembly of the tight junction", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 274, pp. F1-F9, 1998
	AY	Tsukamoto, et al., "Role of tyrosine phosphorylation in the reassembly of occludin and other tight junction proteins", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 276, pp. F737-750, 1999
	AZ	Ye, et al., "A role for intracellular calcium in tight junction reassembly after ATP depletion-repletion", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 277, pp. F524-F532, 1999
	AAA	Nigam, et al., "A Set of Endoplasmic Reticulum Proteins Possessing Properties of Molecular Chaperones Includes Ca ²⁺ -binding Proteins and Members of the Thioredoxin Superfamily", <u>The Journal of Biological Chemistry</u> , Vol. 269, No. 3, pp. 1744-1749, January 21, 1994
	ABB	Bush, et al., "Proteasome Inhibition Leads to a Heat-shock Response, Induction of Endoplasmic Reticulum Chaperones, and Thermotolerance", <u>The Journal of Biological Chemistry</u> , Vol. 272, No. 14, pp. 9086-9092, April 4, 1997
	ACC	Dong, et al., "Intracellular CA ²⁺ Thresholds That Determine Survival or Death of Energy-Deprived Cells", <u>American Journal of Pathology</u> , Vol. 152, No. 1, pp. 231-240, January 1998
	ADD	Kribben, et al., "Evidence for Role of Cytosolic Free Calcium in Hypoxia-Induced Proximal Tubule Injury", <u>J. Clin. Invest.</u> , Vol. 93, pp. 1922-1929, May, 1994
	AEE	Liu, et al., "Endoplasmic Reticulum Stress Proteins Block Oxidant-induced CA ²⁺ Increases and Cell Death", <u>The Journal of Biological Chemistry</u> , Vol. 273, No. 21, pp. 12858-12862, May 22, 1998
	AFF	Yu, et al., "The Endoplasmic Reticulum Stress-Responsive Protein GRP78 Protects Neurons Against Excitotoxicity and Apoptosis: Suppression of Oxidative Stress and Stabilization of Calcium Homeostasis", <u>Experimental Neurology</u> , Vol. 155, No. 2, pp. 302-314, February, 1999
	AGG	Bian, et al., "Roles of Cytoplasmic Ca ²⁺ and intracellular CA ²⁺ stores in induction and suppression of apoptosis in S49 cells", <u>American Journal of Physiology</u> , Vol. 272, No. 4, pp. C1241-1249, April, 1997
	AHH	Bush, et al., "Genesis and reversal of the ischemic phenotype in epithelial cells", <u>The Journal of Clinical Investigation</u> , Vol. 106, No. 5, pp. 621-626, September, 2000
	AII	Milner, et al., "A Novel 17 kD Heparin-Binding Growth Factor (HBGF-8) in Bovine Uterus: Purification and N-Terminal Amino Acid Sequence", <u>Biochemical and Biophysical Research Communications</u> , Vp/ 165, No. 3, pp. 1096-1103, December 29, 1989
	AJJ	Mitsiadis, et al., "Expression of the heparin-binding cytokines, midkine (MK) and HB-GAM (pleiotrophin) is associated with epithelial-mesenchymal interactions during fetal development and organogenesis", <u>Development</u> , Vol. 121, pp. 37-51, 1995
	AKK	Sato, et al., "Pleiotrophin as a Swiss 3T3 Cell-Derived Potent Mitogen for Adult Rat Hepatocytes", <u>Experimental Cell Research</u> , Vol. 246, Number 1, pp. 152-164, January 10, 1999
✓	ALL	Kurtz, et al., "Pleiotrophin and Midkine in Normal Development and Tumor Biology", <u>Critical Reviews in Oncogenesis</u> , Vol. 6, No. 2, pp. 151-177, 1995

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		June 16, 2000	1616
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AMM	Rauvala, et al. "Expression of HB-GAM (heparin-binding growth-associated molecules) in the pathways of developing axonal processes in vivo and neurite outgrowth in vitro induced by HB-GAM" <u>Developmental Brain Research</u> , Voll. 79, pp. 157-176, 1994
	ANN	Imai, et al., "Osteoblast Recruitment and Bone Formation Enhanced by Cell Matrix-associated Heparin-binding Growth-associated Molecule (HB-GAM)", <u>The Journal of Cell Biology</u> , Vol. 143, Number 4, pp. 1113-1128, November 16, 1998
	AOO	Tomita, et al, "Direct in Vivo Gene Introduction into Rat Kidney", <u>Biochemical and Biophysical Research Communications</u> , Vol. 186, No. 1, pp. 129-134, July 15, 1992
	APP	Zhu, et al., "Systemic Gene Expression After Intravenous DNA Delivery into Adult Mice", <u>Science</u> , Vol. 261, pp. 209-211, July 9, 1993
	AQQ	Moullier, et al., "Adenoviral-mediated gene transfer to renal tubular cells <i>in vivo</i> ", <u>Kidney International</u> , Vol. 45, pp. 1220-1225, 1994
	ARR	Montesano, et al., "Induction of Epithelial tubular Morphogenesis in Vitro by Fibroblast-Derived Soluble Factors", <u>Cell</u> , Vol. 66, pp. 697-711, August 23, 1991
	ASS	Bladt, et al., "Essential role for the c-met receptor in themigration of myogenic precursor cells into the limb bud", <u>Nature</u> , Vol. 376, No. 6543, pp. 68-771, August 31, 1995
	ATT	Schmidt, et al., "Scatter factor/hepatocyte growth factor is essential for liver development", <u>Nature</u> , Vol. 373, No. 6516, pp. 699-702, February 23, 1995
	AUU	Schuchardt, et al., "Renal agenesis and hypodysplasia in ret-k- mutant mice result from defects in ureteric bud development", <u>Development</u> , Vol. 122, No. 6, pp. 1919-1929, June, 1996
	AVV	Metzger, et al., "Genetic Control of Branching Morphogenesis", <u>Science</u> , Vol. 284, pp. 1635-1639, June 4, 1999
	AWW	Ohuchi, et al., "FGF10 Acts as a Major Ligand for FGF Receptor 2 IIIb in Mouse Multi-Organ Development", <u>Biochemical and Biophysical Research Communications</u> , Vol. 277, No. 3, pp. 643-649, November 2, 2000
	AXX	Bullock, et al., "Renal agenesis in mice homozygous for a gene trap mutation in the gene encoding heparan sulfate 2-sulfotransferase", <u>Genes & Development</u> , Vol. 12, No. 12, pp. 1894-1906, June 15, 1998
	AYY	Bullock, et al., "Developmental and species differences in the response of the ureter to metabolic inhibition", <u>European Journal of Physiology</u> , Vol. 436, No. 3, pp. 443-448, August, 1998
	AZZ	Davies, et al., "Sulphated proteoglycan is required for collecting duct growth and branching but not nephron formation during kidney development", <u>Development</u> , Vol. 121, Issue 5, pp. 1507-1517, 1995
	AAAA	Kispert, et al., "Proteoglycans are required for maintenance of Wnt-11 expression in the ureter tips" <u>Development</u> , Vol. 122, pp. 3627-3637, 1996
	ABBB	Montesano, et al., "Identification of a Fibroblast-Derived Epithelial Morphogen as Hepatocyte Growth Factor", <u>Cell</u> , Vol. 67, No. 5, pp. 901-908, November 29, 1991
	ACCC	Zelzer, et al., "Cell fate choices in <i>Drosophila</i> tracheal morphogenesis", <u>BioEssays</u> , Vol. 22, No. 3, pp. 219-226, March, 2000
	ADDD	Enomoto, et al., "GFR α -1 Deficient Mice Have Deficits in the Enteric Nervous System and Kidneys", <u>Neuron</u> , Vol. 21, No. 2, pp. 317-324, August, 1998
	AEEE	Imai, et al., "Towards gene therapy for renal diseases", <u>Nephrologie</u> , Vol. 18, No. 7, pp. 397-402, 1998

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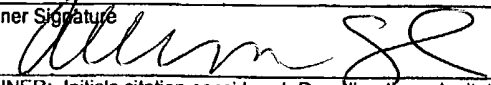
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aj	AFFF	Imai, et al., "Gene transfer and kidney disease", <u>Journal of Nephrology</u> , Vol. 11, No. 1, pp. 16-19, January-February, 1998
	AGGG	Imai, et al., "Strategies of gene transfer fo the kidney", <u>Kidney</u> , Vol. 53, No. 2, pp. 264-272, February, 1998
	AHHH	Meng, et al., "Pleiotrophin signals increased tyrosine phosphorylation of β -catenin through inactivation of the intrinsic catalytic activity of the receptor-type protein tyrosine phosphatase $\beta\zeta$ ", <u>Proc. Natl. Acad. Sci.</u> , Vol. 97, No. 6, pp. 2603-2608, March 14, 2000
	AIII	Vainio, et al., "Epithelial-Mesenchymal Interactions Regulate the Stage-Specific Expression of a Cell Surface Proteoglycan, Syndecan, in the Developing Kidney", <u>Developmental Biology</u> , Vol. 134, No. 2, pp. 382-391, August, 1989
	AJJJ	Vainio, et al., "Syndecan and Tenascin Expression is Induced by Epithelial-Mesenchymal Interactions in Embryonic Tooth Mesenchyme", <u>The Journal of Cell Biology</u> , Vol. 108, No. 5, pp. 1945-1954, May, 1989
	AKKK	Ohuchi, et al., "Renal tubular effects of endothelin-B receptor signaling: its role in cardiovascular homeostasis and extracellular volume regulation", <u>Curr Opin Nephrol Hyperten.</u> , Vol. 9, No. 4, pp. 435-439, July, 2000
	ALLL	Thadhani, et al., "Acute renal failure", <u>The New England Journal of Medicine</u> , Vol. 334, No. 2, pp. 1448-1460, May 30, 1996
	AMMM	Bonventre, et al., "Acture renal failure. I. Relative importance of proximal vs. distal tubular injury", <u>Am. J. Physiol.</u> , Vol. 275, No. 5, pp. F623-F631, November, 1998
	ANNN	Molitoris, et al., "Acute renal failure. II. Experimental models of acute renal failure: imperfect but indispensable", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 278, No. 1, pp. F1-F12, January, 2000
	AOOO	Fish, et al., "Alterations of Epithelial Polarity and the Pathogenesis of Disease States", <u>The New England Journal of Medicine</u> , Vol. 330, No. 14, pp. 1580-1588, April 7, 1994
	APPP	Tsukamoto, et al., "Tight Junction Proteins Form Large Complexes and Associate with the Cytoskeleton in an ATP D epletion Model for Reversible Junction Assembly", <u>The Journal of Biological Chemistry</u> , Vol. 272, No. 26, pp. 16133-16139, June 27, 1997
	AQQQ	Hammerman, et al., "Acute renal failure. III. The role of growth factors in the process of renal regeneration and repair", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 279, No. 1, pp. F3-F11, July, 2000
	ARRR	Gailit, et al., "Redistribution and dysfunction of integrins in cultured renal epithelial cells exposed to oxidative stress", <u>American Journal of Physiology</u> , Vol. 264, No. 1, pp. F149-F157, January, 1993
	ASSS	Lieberthal, et al., " β Integrin-Mediated Adhesion between Renal Tubular Cells after Anoxic Injury", <u>Journal of the American Society of Nephrology</u> , Vol. 8, Issue 2, pp. 175-183, February, 1997
	ATTT	Zuk, et al., "Polarity, integrin, and extracellular matrix dynamics in the postischemic rat kidney", <u>American Journal of Physiology</u> , Vol. 275, No. 3, pp. C711-C731, September, 1998
	AUUU	Gumbiner, et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex", <u>The Journal of Cell Biology</u> , Vol. 107, No. 4, pp. 1575-1587, October, 1988
	AVVV	McNeill, et al., "Novel Function of the Cell Adhesion Molecule Uvomorulin as an Inducer of Cell Surface Polarity", <u>Cell</u> , Vol. 62, No. 2, pp. 309-316, July 27, 1990
	AWWW	Mandel, et al., "ATP depletion: a novel method to study junctional properties in epithelial tissues. II. Internalization of Na^+ , K^+ -ATPase and E-cadherin", <u>Journal of Cell Science</u> , Vol. 107, Part 12, pp. 309-316, December, 1994

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ad	AXXX	Tsukita, et al., "Structural and signalling molecules come together at tight junctions", <u>Current Opinion in Cell Biology</u> , Vol. 11, No. 5, pp. 628-633, October, 1999
	AYYY	Denker, et al., "Molecular structure and assembly of the tight junction", <u>American Journal of Physiology</u> , Vol. 274, No. 1, pp. F1-F9, January, 1998
	AZZZ	Gopalakrishnan, et al., "Rho GTPase signaling regulates tight junction assembly and protects tight junctions during ATP depletion", <u>American Journal of Physiology</u> , Vol. 275, No. 3, pp. C798-C809, September, 1998
	AAAAA	Kuznetsov, et al., "Folding of Secretory and Membrane Proteins", <u>The New England Journal of Medicine</u> , Vol. 339, No. 23, pp. 1688-1695, December 3, 1998
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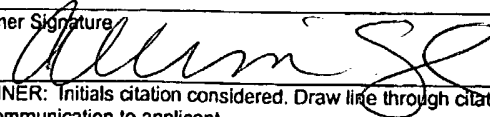
Examiner Signature 	Date Considered 11/19/04
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Sheet 6 of 6

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15670-021001	Application No. 09/595,195
		Applicant Nigam, et al.	
		Filing Date June 16, 2000	Group Art Unit 1616
		Information Disclosure Statement by Applicant (Use several sheets if necessary)	

(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
aj	AQQQQ	Vanderwinden, et al., "Cellular distribution of the new growth factor Pleiotrophin (HB-GAM) mRNA in developing and adult rat tissues", <u>Anat. Embryol.</u> Vol. 186, pp. 387-406, 1992
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✓	AVVVV	Sakurai, et al., "Identification of pleiotrophin as a mesenchymal factor involved in ureteric bud branching morphogenesis", <u>Development</u> , Vol. 128, pp. 3283-3293, 2001

Examiner Signature 	Date Considered 11/19/04
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)